Operation Manual

Stand Alone DVR

DSR-430

interM

Welcome

A personal welcome to you from the management and employees of Inter-M

All of the co-workers here at Inter-M are dedicated to providing excellent products with inherently good value, and we are delighted you have purchased one of our products.

We sincerely trust this product will provide years of satisfactory service, but if anything is not to your complete satisfaction, we will endeavor to make things right.

Welcome to Inter-M, and thank you for becoming part of our worldwide extended family!

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK.
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

This symbol is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operation and maintenance (servicing) instructions in the literature accompanying the appliance.

Caution: To prevent electric shock do not use this (polarized) plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

Attentions: Pour prévenir les chocs électriques ne pas utiliser cette fiche polarisée avec un prolongateur, une prise de courant on une autre sortie de courant, sauf si les lames peuvent étre insérées à fond sans en laisser aucune partie à découvert.

*Do not install this equipment in a confined space such as a book case or similar unit.
*The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such vases, shall be placed on the apparatus.
*Worded: “WARNING FOR YOUR PROTECTION PLEASE READ THE FOLLOWING-WATER AND MOISTURE: Unit should not be used near water(e.g. near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc). Care should be taken so than objects do not fall and liquids are not spilled into the enclosure through openings.”

Service Instructions

*Worded: "Caution: These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so."
*Location: Instruction Manual.

NOTE : This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

*** It can be heated up if you use this product in closed box or ill-ventilated place.**

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Before you begin...

This operation manual is the guidebook against the program use method and a composition of DSR system (below system).
Before using a system, certainly it tries to read the instruction manual certainly, it wishes.

After dissolving a packing to, it confirms the various component and the question sleeps system sale and question.

⚠ CAUTION ⚠

- This is security product and please keep it from the electrical shock and impact.
- Please avoid from high temperature and heavy humidity.
- Recommend operation temperature -10'C ~ +40'C.
- The breakdown due to the use of adaptor which is not included in the product can not be guaranteed by the manufacture.
- No Manufacturer guarantees HDD saved data.
- No Manufacturer guarantees user's fault.
- Please regularly backup important data from the system.
- If HDD is necessary to be changed, you can only change it to ATA HDD.
- Before using the recording function, you had better confirm the time set for the first thing not to get the date incorrect.

Safety Notice

1. Before installing the product

- Take out the components and place them on a clean and dry area.
- Install in a well ventilated place.
- Do not install in areas of strong electrical or electromagnetic interference, such as in switchgear rooms or near powerful loudspeakers etc.
- Avoid installing in areas with severe temperature changes such as garages and outbuildings.
- Do not install in direct sunlight or near sources of heat and avoid sources of vibration.
- Please check the mains voltage settings on the system before connecting the power cord.
- Having unpacked the system, we recommend retaining all packaging for future use in the event of relocation or returning to manufacturer. To avoid the danger of suffocation, please dispose of the plastic wrapping carefully.

2. Notes on using the product

- Please make sure to read the user guide before using the system.
- Contact the supplier if the product does not function. Do not attempt to fix any internal problems as this may void your warranty. The system contains static sensitive components.
- Do not operate the system or touch the power cord or outlet with wet hands.
- Do not use alcohol or solvent based products to clean the cabinet.
- Press the button of keypad for 5secs before shutting down the system and confirm the power off message. HDD is a possibly defected if you keep the Power on and off without the system OFF.
- Do not place any heavy items on top of the system.
- Do not move the system whilst powered up.
- In the event of any system failure where smoke or smells are present, turn off the system, remove the mains plug and contact your supplier.

Manufacturers Guarantee

This system is guaranteed against failure within 1 year of the purchase date.
We reserve the right to replace components prior to the replacement of the complete system.
Do not attempt to repair any internal components as this may void warranty.
This guarantee does not cover instances of system abuse, physical damage or other issues beyond the manufacturers control.
In the event of any failure, contact your supplier.

Free maintenance or replacement service is not applicable if:

1. The system was damaged due to user error or abuse.
2. The user did not follow the instructions in the user guide.
3. The rated voltage and frequency specified in the user guide were not observed.
4. Replacing of consumables or cleaning of the system is required.
5. System failure following repair by unauthorized personnel.

* The consuming width shift and equipment cleaning are excepted from maintenance conservativeness.

After the free maintenance period has expired, you can have your system upgraded or repaired by your supplier. Should you require these services, please ask your supplier for more information.

Product Name		
Product Number		
Supplier / Telephone		
Date of Purchase		
Guarantee Period		
Customer Information	Name	
	Address	
	Telephone	

- Please note other terms and conditions may vary with different suppliers.
- You should quote the information above when requesting maintenance or service.

System Component

Please, dissolve a packing at the place which is flat and moisture less. And than, check the components as below.

Components of DSR System

DSR-430 MAIN UNIT

USER MANUAL

MOUSE

REMOTE CONTROLLER

BATTERY AAA 2pcs

ADAPTER

POWER CABLE

Introduction

What is the STAND-ALONE DVR?

As DVR of All in one type built in functions of DVR, Independent system was embodied.
Because stand-alone type have a high stability and convenience, it is going to replace DVR based PC.

System Features

1) Stability

Stand-Alone Type of Non OS base.

2) Convenient Characteristic

The menu set which is convenient due to an intuition use.
A variety of control interface : Mouse/Remote Controller/KeyPad
The support a search [Motion/Sensor/continuity/Motion+Sensor/Manual Recording Type]

3) Expendability

Remote control software gearing of Inter-M DVR Product(CMS).
Support 'Explorer Viewer'

4) Technical Power

Non OS base User Interface embodiment.

5) Functions

Time-lapse/Event gearing/Post event recording.
Recording set up; classified by camera, days and time.
Built-in external sensor and perceptive function of motion.

Main Functions of System

- Watching images of real time by four cameras.
- Provide a variety of user control interface.
- Easy to change languages and Video Type(NTSC/PAL).

The things you should be noticed.

- When power up, any key[keypad], except for base key (SET/ESC) in the front is not working under a mouse connection.
- Without mouse connection, front key and remote control can control the system.
- The Product was released with a password **'1234'**.
- When set up the equipment the first time, confirm the set up time. If the time do not match with real time, re-set up the time with reference to manual[3-6 Date and Time]
- For recording the first time, format HDD with reference to 'hard disk' part of manual [3-6 Hard Disk] prior to use of the system or, recording will not be operated.
- NTSC Type Operation: Under pressing

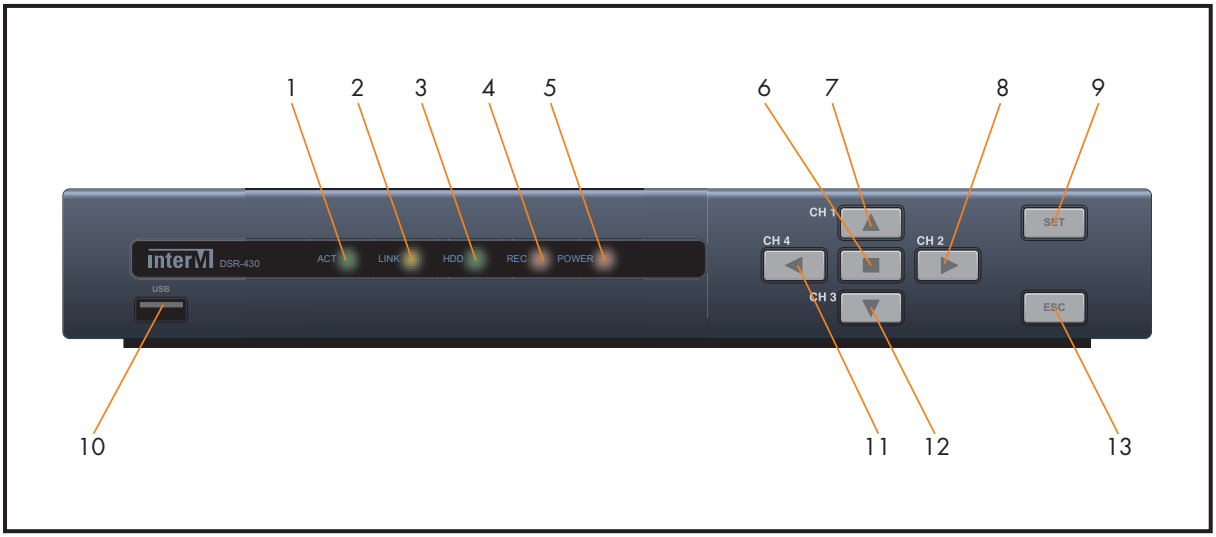
key, Power up.
- PAL Type Operation: Under pressing

key, Power up.
- In case you lost the password for setting up, you should press the upward key at the same time of the power connected. After checking the booting message, all the values set by user are default by pressing the up key / right key / down key / left key in a row by auto-rebooting.

After all the rebooting, all the user setting values become to default.

Formation and Function of System

1. LED AND BUTTON OF THE FRONT SIDE



1. ACT LED
When used the network communication.

2. LINK LED
When connect with network.

3. HDD LED
When system is reading and writing HDD.

4. REC LED
When system is recording.

5. POWER LED
When power up.

6. MENU BUTTON
When select 4partition and menu in the screen.
To turn off the system, press key for five seconds on the screen.
(confirm the OFF message and then shut the power).

7. CH1 BUTTON
When move to upwards of menu, select the camera1. and set up a password, [CH1] is used as the Key1.

8. CH2 BUTTON
When move to the right side of menu, select the camera2. and set up a password, [CH2] is used as the Key2.

9. SET BUTTON
Option of Setting up/keeping by hand operated.

10. USB PORT

Image suspended of the Recording Play is kept via USB.(support Multi Card reader of USB Type.)

11. CH4 BUTTON

When move to the left side of menu, select the camera4. and set up a password, [CH4] is used as the Key4.

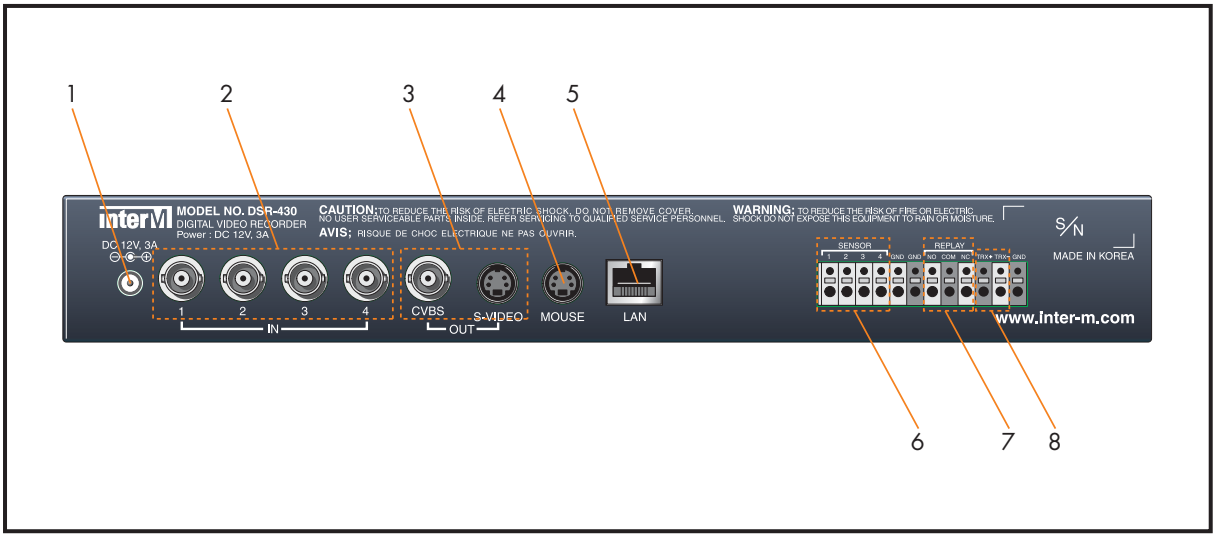
12. CH3 BUTTON

When move to downwards of menu, select the camera3. and set up a password, [CH3] is used as the Key3.

13. ESC BUTTON

Cancellation of seeing up/conclusion of/keeping by hand operated.

2. THE BACK SIDE



1. POWER (DC JACK)
Use DC12V/3A adaptor with 160G HDD.

2. VIDEO INPUT (BNC)
Connect with cameras and external equipments.(NTSC/PAL)

3. VIDEO OUTPUT (BNC/S-VIDEO)
Connect with monitors for watching screen.(NTSC or PAL)

4. MOUSE (PS2)
Connect with a mouse for controlling the system.
(Power up after mouse connection makes only base keys of the front key are operated.)

5. LAN (RJ-45)
LAN is connected with RJ-45.(for client connection)

6. SENSOR INPUT
Provide input of four sensors.

7. ALARM OUTPUT
Connect with equipment of alarm output.(0.5A 125VAC, 1A 24VDC)

8. PTZ (RS-485)
P/T/Z cameras is controlled by RS-485 Communication.

System Setup

NTSC or PAL Type is released; Language can be changed in set-up of menu.
- Under [SET] key is pressed, power up ; the system is operated as PAL.
- Under [ESC] key is pressed, power up ; the system is operated as NTSC.

1. BOOTING

In the back side, connect with input/output and a mouse and than power up. It makes a booting as below [picture 1-1]

[picture 1-1]

'Found Hard-Disk…' message is disappeared, the system booting was concluded normally.
If you do not find a hard disk, 'No Hard-Disk found' message is shown. A damage of a hard disk, poor connections of HDD or use of low level of electronic power adaptor are also shown like that.
The date, time, availability of hard disk is shown in the downward of screen.
To set up a product the first time, format HDD with reference to 'Hard-Disk' part of manual. [3-6 Hard Disk]

A mouse and keypad can not be used simultaneously.
(exclusive of [SET] [Record] / [ESC] [STOP])
When you power up without mouse connection, equipments can be controlled by remote control and key pad.
When you put the power ON only with the mouse connected, equipments can be controlled by only mouse.
([SET] [Record Start] and [ESC] [Record Stop] of Keypad is operated.)

2. LIVE

After booting normally, the live screen of four channels is shown as below.[picture 2-1]

[picture 2-1]

[picture 2-2]

MOUSE

Full screen will be shown when you put the point each channel area and click on the left side of mouse.
Previous channel will be shown when you divide the screen into two and click on the left area with right side of the mouse. (in case present screen is CH1, it will move to CH4)
Next channel movie will be shown when you click the right area with right side of mouse. And you will go back to 'Quad' mode when click the left side of it.

KEYPAD

Full screen of each channel will be shown if you click CH 1 / CH 2 / CH 3 / CH 4 of the keypad.
If there is no input Video signal, Blue screen Viewer will be generated such as CAMERA2, CAMERA3 of the below 2-1 photos.

[picture 2-3]

When each channel is in recording status, the image will be shown as above.
Each of which means as below;

MA(Manual Recording) : You can save manual when click SET button and stop to save when click ESC button.

SC(Schedule Recording) : Schedule will be saved based on time and day set and will be shown in the monitor.

MO(Motion Recording) : If 'motion' happens to time and day set, it will be saved and shown in the monitor.

SE(Sensor Recording) : If detect of Sensor happens to time and day set, it will be saved shown in the monitor.

MO SE(Motion & Sensor Recording) : The sign 'SE' will be appeared and saved when it Motion or Sensor detect, Motion & Sensor happen.

If you push the SET button, Manual Recording will get started.
If you push the ESC button, Manual Recording will get finished.

3. SET UP

You can see the windows MENU when first click [■] of Keypad or right button of a mouse.
Normally, password is not necessary to make a shipment.
The password;1234, however, is necessary to enter and change the menu.
* Password can be input with keypad and each channel button stands for the number.
([▲]=1, [▼]=2, [◀]=3, [▶]=4)

[picture 3-1]

MOUSE

- A left button
  - Choose the menu
  - Change the value on it possible to use mouse scroll.
  - Choose the menu Field(REC/PLAY/SCH/EVENT/NET/SETUP/LIVE)
- A right button
  - Close the menu

KEYPAD

- [▲] / [▼] / [◀] / [▶] : Move a cursor
- [■] : • Choose a menu
  • Change the value
- [SET] : Save the value revised and be out of the menu.
- [ESC] : Not save the figure revised and be out of the menu.

3-1. RECORDING

Save 'recording set' as channels.

[picture 3-2]

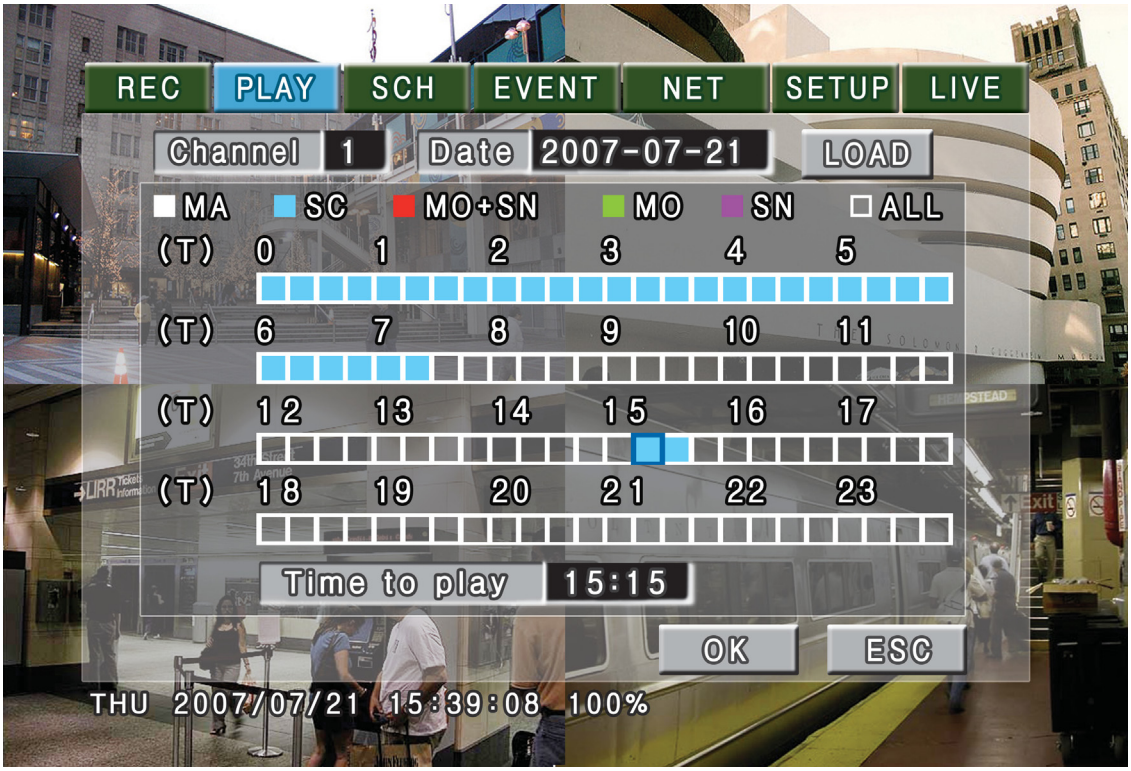
- Channel : Choose the channel [choice options: 1~4]
- Resolution : Choose a recording resolution of a channel chosen
  (Choice options: NTSC 704X240, 352X240 / PAL 704X288, 352X288)
- Quality : Choose a recording quality of a channel chosen.
  (Choice options : minimum/low/middle/high/maximum)
- FPS : Set a recording framerate of a channel chosen per a second.
  Maximum recording frame at 704x240 is 15FPS per a second for NTSC and 704x288 is 12.5FPS per a second for PAL.
- Recording Time After a Motion Detection : Set a recording time after a motion occurs.
- Recording Time After a Sensor Occurrence : Set a recording time after a sensor occurs.
- Sensor Connection : Choose a sensor linked a channel chosen.
  (according to the sensor chosen occurs sensor recording and alarm output)

* Sensor Recording isn't made if you do not choose a connection of Sensor of the 'REC' Field in spite of a sensor recording is set to the 'SCH' Field and it starts to work .

- Confirmation/Cancellation : After set a channel, press 'OK' or 'ESC'.

3-2. PLAY

< Play and set a play >



[picture 3-3]

- Channel : Choose the channel you would like to search.
- Date : Choose the date you would like to search.
- LOAD : Choose the way recorded and search for a recording file.
  After choosing among Emergency/Continuous/Motion+Sensor/Motion/Sensor, push the 'LOAD' button and you can only find out the file regarding the way of recording.
- Confirmation : After choosing the hour , press the 'OK' button and let it play.
  (The playing unit of recording file is 15minutes.)

< Play >
As above, you can find the date and time of the movie playing the upper side of the screen.

[picture 3-4]

[picture 3-5]

MOUSE

- The movie is played with full screen if you scroll and click the Mouse once more to get the size back. You can control the speed of a play with scrolling the Mouse.
- The screen is stopped by clicking the scroll and moved pre or post one frame by rolling the scroll up and down. When it is stopped, you can click the left button for a reverse play and the right button for a play.
- To back to the 'SCH' menu, click the right button of the mouse.

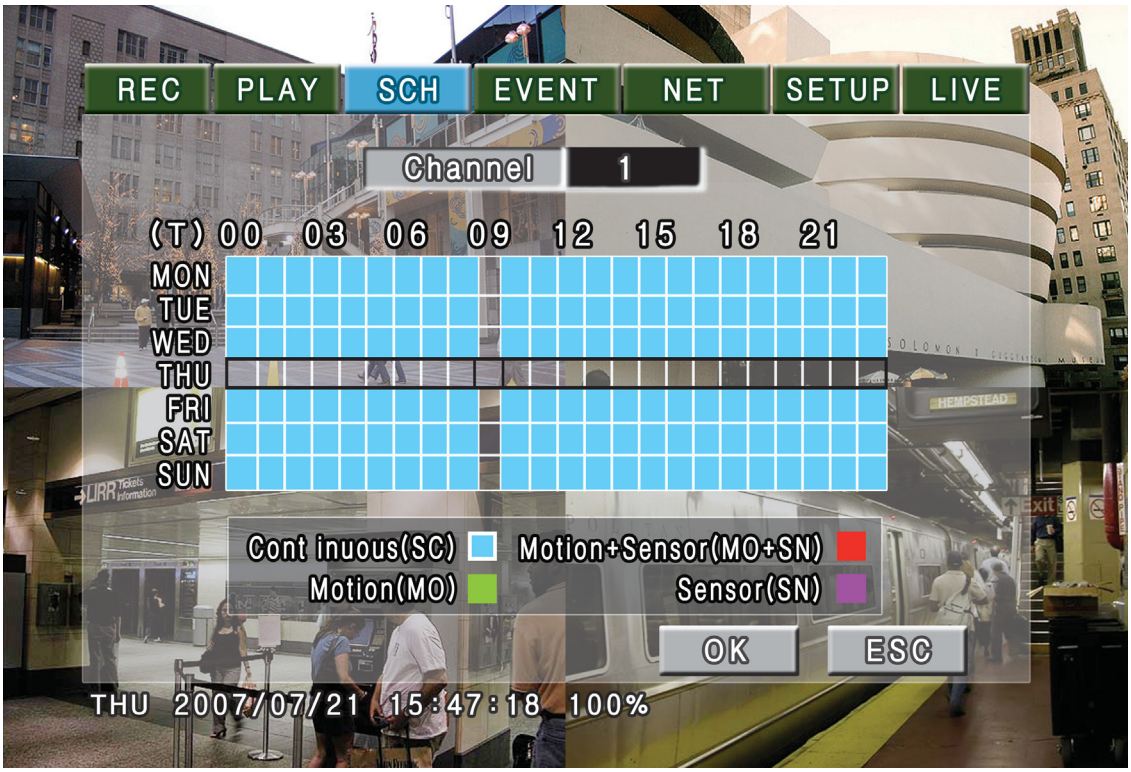
KEYPAD

- In case using keypad, full screen will be played by clicking ■ button and back to small(PIP) by pressing it again.
- You can control the speed of a play by using ▲ / ▼ button.
- In order to stop playing, you need to press ◀ or ▶ button. Also you can move forward as a frame. If you click the s ◀ or ▶ button in stop mode, it starts to play reverse and forward.

* The operation of keypad and remote control is same. The remote control can be used by setting numbers.

3-3. SCHEDULE

How to set a time table.



[picture 3-6]

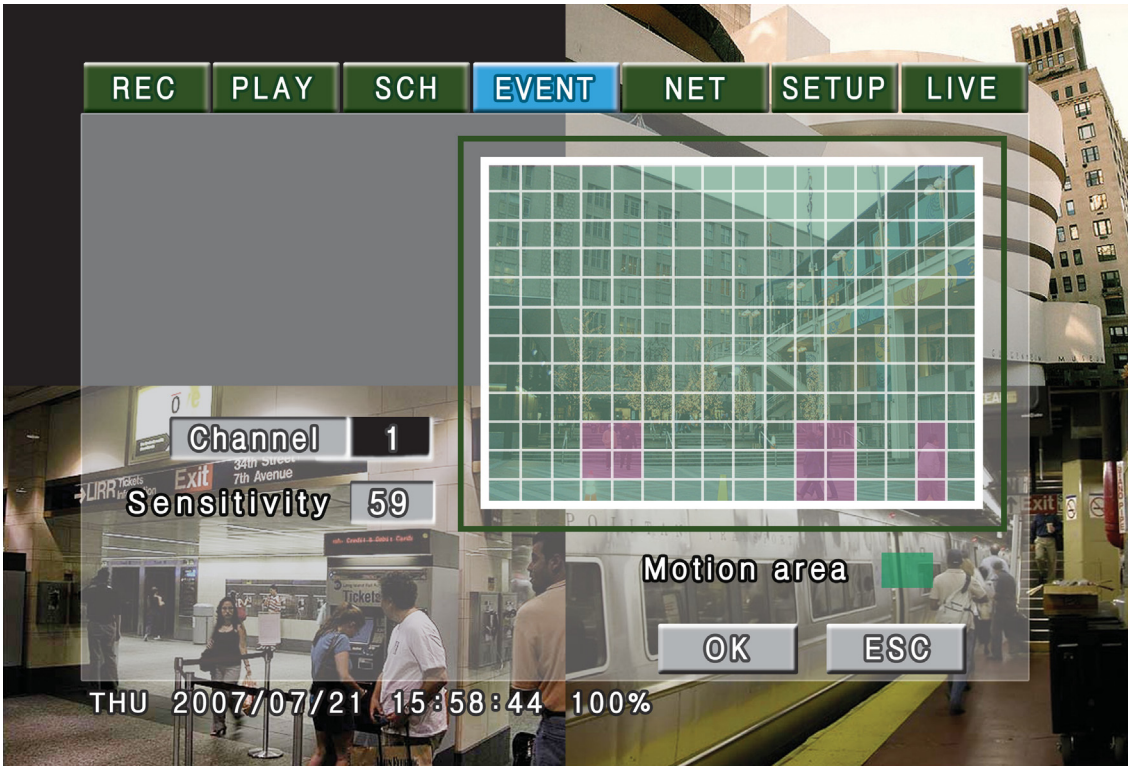
MOUSE

- Click a left button of the mouse(in the left upper outside area of time table cell), all date will be set or clear.
- Click a left button of the mouse in the area of 0~23, all the date for the time will be set or clear.
- Click a left button of the mouse in the area of the date, all the time for the date will be set or clear
- Put the pointer in each sell and click a left button, the sell pointed will be set or clear.

KEYPAD

- The time for the date pointed will be set or clear when you click the ■ button of a first sell of left upper side.
- When press the ◀ button in each cell, all dates for the time is chosen (removal of the choice : the lower directed key) and you can move the rows chosen to right and left with ◀ and ▶ button.
- When choose interactive key, it will be reversed to the standard columns of the cells selected. (Removal of the choice: the right directed key)
- When you press ■ button from the column standard, the entire column chosen is set/clear and you can move the menu un and down.
- If you press the ◀ button in a column chosen, it will be appeared as a cell area and the entire will be set/clear with the ■ button.

3-4. EVENT



[picture 3-7]

- The way you choose a motion area is the same as the way of date table. And you can choose a motion area as channel.

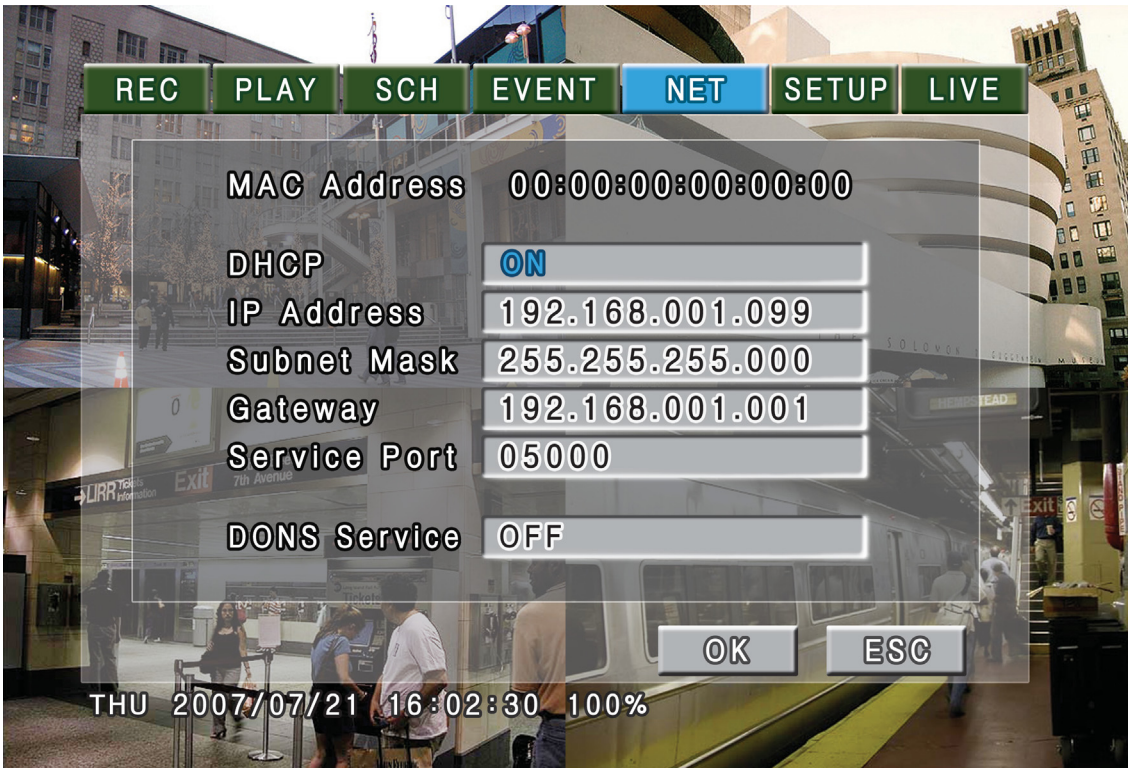
MOUSE

- In the event of setting a motion area, PIP will be happened and the original Live Moving Channel will be appeared nothing.(shown as a black screen).

KEYPAD

- Sensibility can be chosen from 0 to 63 and increased by clicking button when inputting figures with keypad.
- Motion detection area will be indicated the color of green and the color of pink will indicate a real movement.
  0 : A sensor does not work even if movement sensor area is set.
  63 : The condition of a sensor is continued when motion detection area is set without any movement.
- Under the channel with no camera input, motion detection area and sensibility can be set but the sensor does not work.

3-5. NETWORK



[picture 3-8]

- DHCP : When the value is 'ON', IP is automatically delivered and set .
- IP Address : Put the IP address delivered from Internet Service Provider.
  Rebooting will be needed for a renewal when you try to set DHCP function.
  Please make a use after being confirmed by Network operator as for a possibility of DHCP use.
- Subnet Mask : Input the subnet mask delivered by Network manager.
  255.255.255.0 is used in basic in standard network.
- Gateway : Input the gateway delivered by Network manager.
  Gateway indicates generally IP of the switch which routing from LAN to WAN.
- Service Port : The service port used in network communication.
  It is ok to input the port No. opened by network manager in firewall.
  However it is unnecessary to set a service port at the basic use of internet.

3-6. SETUP

< Factory Default >

[picture 3-9]

- For factory default, select 'Factory Default' in "SELECT MENU" field and 'ON' in "Factory Set" field. And then press "Save" button.
- If you click on "OK" before pressing "Save" button, the setting will be restored to the factory default as well.
- The set up screen disappear when click on "OK".

< Date and Time >

[picture 3-10]

Set up the date and time.

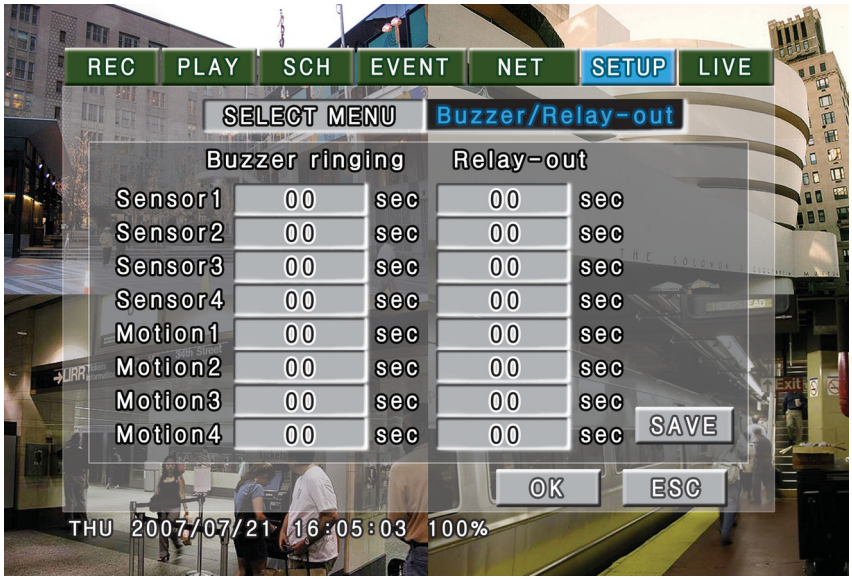
MOUSE

- You can select and adjust date and time by clicking on the left button.
- With scroll bar, numbers can be increased or decreased.

KEYPAD

- The operation with remote controller is the same as with keypad.
- Use ◀ , ▶ keys to move between fields and use ▲ , ▼ keys to increase or decrease numbers.
- For "SAVE" and "OK", press ■ button on keypad [remote controller : ▶II].

< Buzzer/Alarm >



[picture 3-11]

- Set the period of buzzer or alarm according to the sensor setting of channels in "REC" Field menu.
- Set the period of buzzer or alarm for each channel according to the detection area and sensitivity of motion in "EVENT" Field menu.
- In case buzzer or alarm go off continuously, you can stop it by setting the time of buzzer or alarm to "0".

< Password >

[picture 3-12]

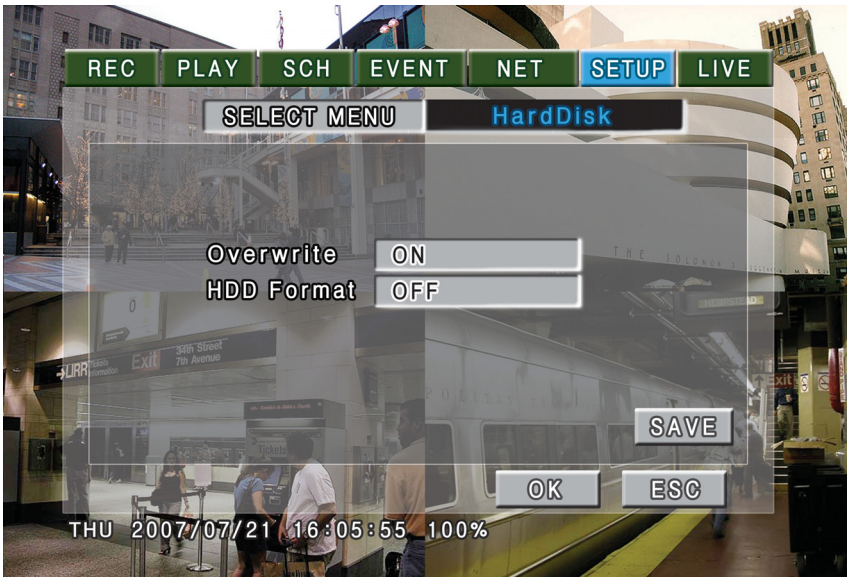
- Password is necessary for changing the set up in case password is specified.

< Language >

[picture 3-13]

- Set the language of the system in "Language" field.
(Languages available can be added or replaced by manufacturer.)

< Hard Disk >



[picture 3-14]

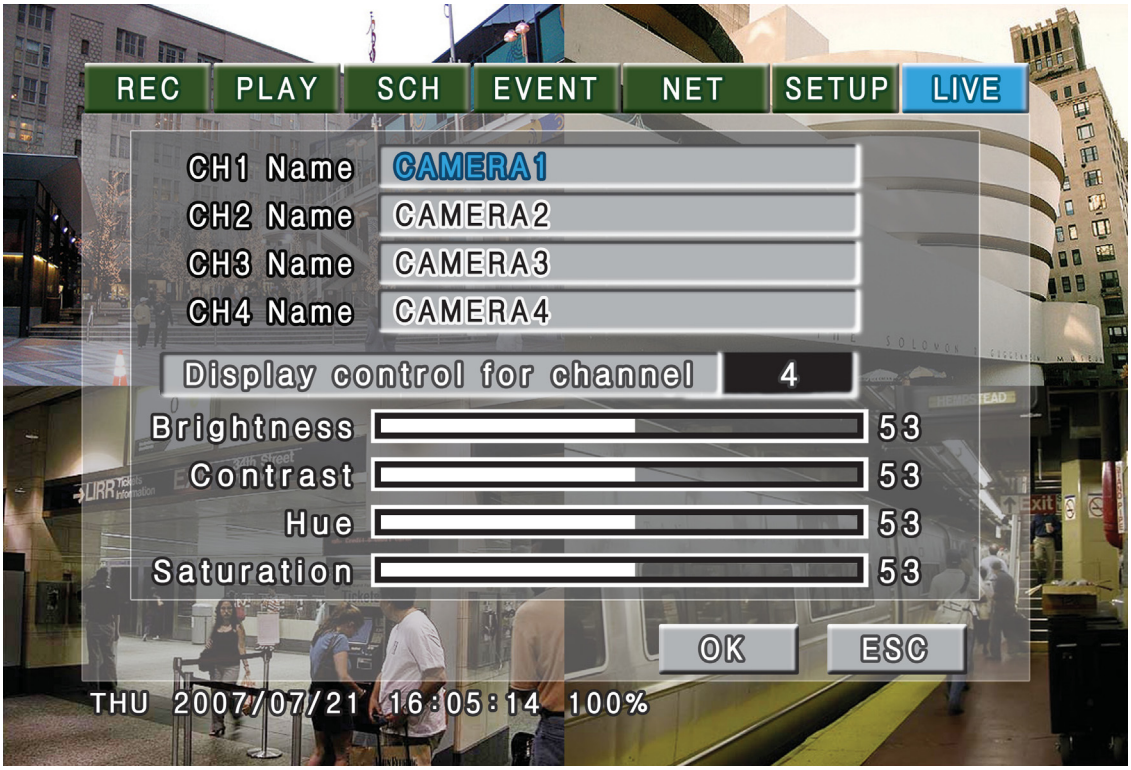
- HDD Overwrite : If HDD is full, save current data after automatically deleting the oldest saving data. In case [OFF] is selected in "Overwrite" field, new data is not recorded any more when HDD is full.
- HDD Format : Use the system after formatting HDD for installation. For HDD format, press "OK" button after selecting [ON] in "HDD Format" field.

< Pan/Tilt/Zoom >

[picture 3-15]

- Input PTZ Camera specification referring to the manuals of PTZ equipments. DSR-430 can control each PTZ equipment in case the ID of PTZ equipment for each channel is prearranged.
  - CH 1 : ID "1"
  - CH 2 : ID "2"
  - CH 3 : ID "3"
  - CH 4 : ID "4"
- Protocols for PTZ equipments can be added or replaced by manufacturer.

3-7. LIVE



[picture 3-16]

- Display the camera names on the screen with setting up the camera names.
- Input device is activated when click on the camera name of each channel.
- Adjust Brightness/Contrast/Hue/Saturation with the scroll bar of mouse or keypad.

Specifications

		DSR-430
Camera Input		4 CH
Video Output		SVHS : 1 Y/C, CVBS : 1 BNC(Monitor)
Sensor		4 CH
Relay		1 CH(1~60sec, Continuance)
Mouse/USB		PS2 1 Port/USB A 1 Port
Display/Recording Speed (FPS)	NTSC	Up to 120fps
	PAL	Up to 100fps
Live Resolution	NTSC	720 x 480
	PAL	720 x 576
Recording Resolution	NTSC	704 x 240(30fps), 352 x 240(120fps)
	PAL	704 x 288(25fps), 352 x 288(100fps)
Screen Division		1, 4
Compression		M-JPEG
Recording Type		Manual, Motion, Sensor, Motion+Sensor, Schedule
Search		Date, Time(Quarter), Event(Motion, Alarm)
Speed		SS, S, 1, F, FF Forward/Backward
Network		10/100mb Ethernet(RJ45 Only), (TCP/IP, DHCP)
Application		UCM, DDNS
Web Browser		ActiveX
Motion Detection		Multi-Zones, Multi-Channels
Internal Buzzer		Sensor Input, Motion Detection
Pan/Tilt Camera		RS-485 Interface
HDD		IDE HDD 1EA
Operating Temperature		-10°C ~ +40°C
Power Source		DC 12V, 3A
Power Consumption		11W
Weight		2.7kg/5lb
Dimensions		320(W) x 44(H) x 250(D)mm/12.6(W) x 1.7(H) x 10(D)in

※ Specifications and design subject to change without notice.

CMS

Central Monitoring System

interM

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CMS Program

DEFAULT SCREEN AND USING THE FUNCTIONS

- CMS program allows connecting to Inter-M DVR through networks.
- CMS program is for integrated management of Inter-M DVR and some functions are restrictive according to the model.
- Some functions can be changed for new DVR in the future.

< CMS Default Screen >

✓ Function button may not be naturally executed at low line speed depending on the line speed of [CMS Default Screen] network. Wait a minute until function will be executed.
✓ Problem may occur that the screen stops or remains in a standby status for a long time when consecutively using function button.
✓ Connect or disconnect button is used for connection through networks.

1. Monitoring Screen : Shows the camera image and camera connection information.

[Camera Information]

- Camera Name : Displays the configured camera name and the current time
- Recording & Event : [R]Record, [S]Sensor, [M]Motion

2. Camera Selection : Use to select the camera

: Click for Group A (1 ~ 16 Cameras)

: Click for B Group (17 ~ 32 Cameras)

- Click number of camera to select.
- Double-click' a camera to select from the image screen.
  - Dark Gray : Camera currently not selected
  - Purple : Camera currently selected

3. Screen Split / Conversion : Use to Split / Convert the screen.

[Screen Split]

- : Screen not split (automatic / manual conversion)
- : Screen split into 4 sections (automatic / manual conversion)
- : Screen split into 6 sections (automatic / manual conversion)
- : Screen split into 9 sections (automatic / manual conversion)
- : Screen split into 10 sections (automatic / manual conversion)
- : Screen split into 13 sections (automatic / manual conversion)
- : Screen split into 16 sections (automatic / manual conversion)

[Screen Conversion]

- : Manually reverses the screen.
- : Manually Forwards the screen.
- : Automatically switches the screen. (default value: 10 seconds)
- : Fully enlarges the screen.
  (click the right mouse button in the monitoring screen to "enlarge")

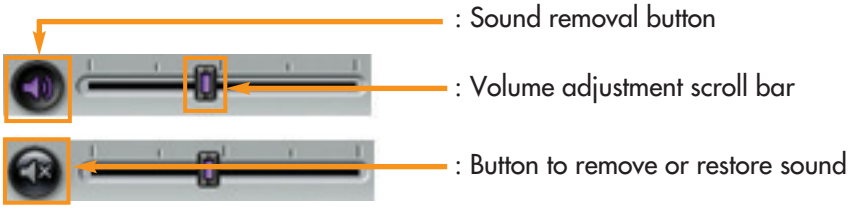
4. Connect/Disconnect of bi-direction Audio: restricted function for DSR-430

Function to listen to remote audio and output the audio input of the current PC to speakers of remote system.(Usage: Remote warning announcement, audio communication, etc.)

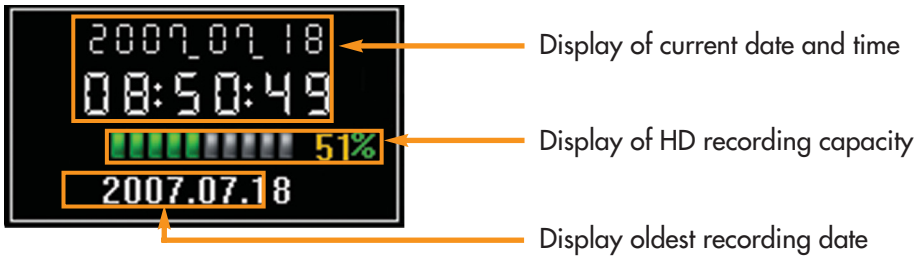
: Connect bi-direction audio.

: Disconnect bi-direction audio connection

5. Audio Volume Control : Restricted function for DSR-430



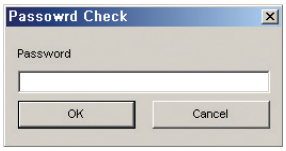
6. Index Information Window : Shows the current date, time and hard disk saving status information.



7. Function Button : This is function to set or retrieve environment.

Environment Setup : Sets environment related with CMS (Client Manager System).

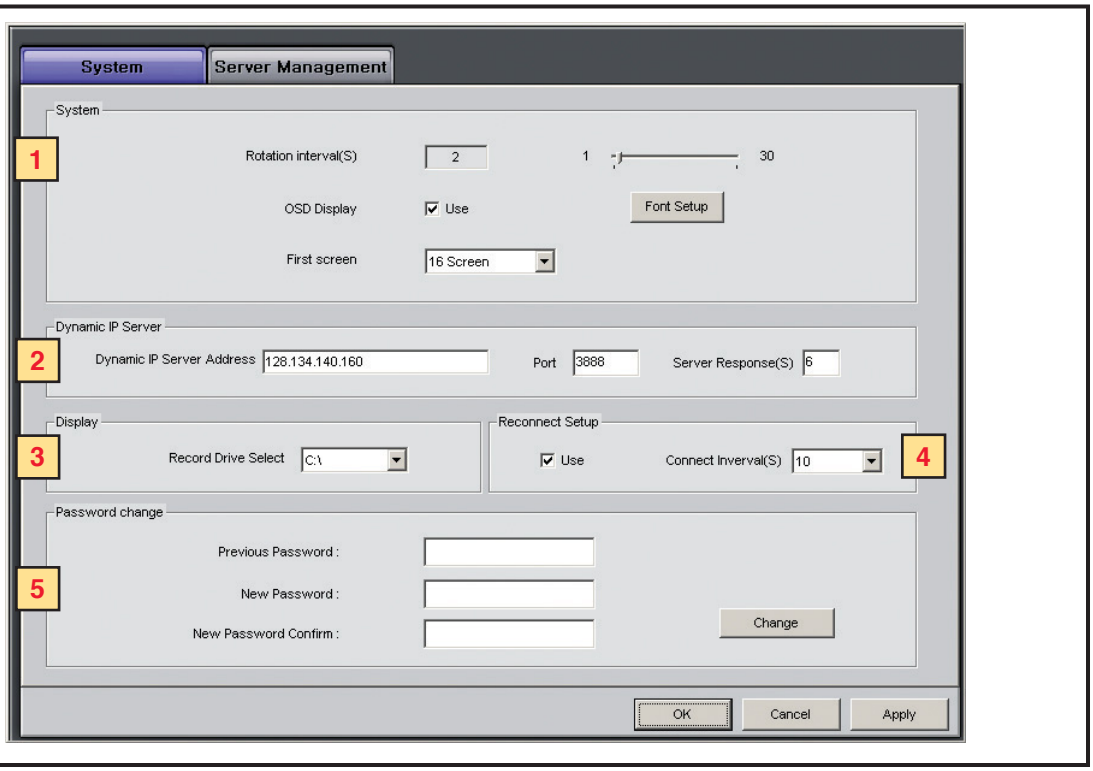
[Authorization Procedure] Performs authorization procedure for environment setting.



(Default Password : "1111")

If authorization is successfully done, following window is displayed.

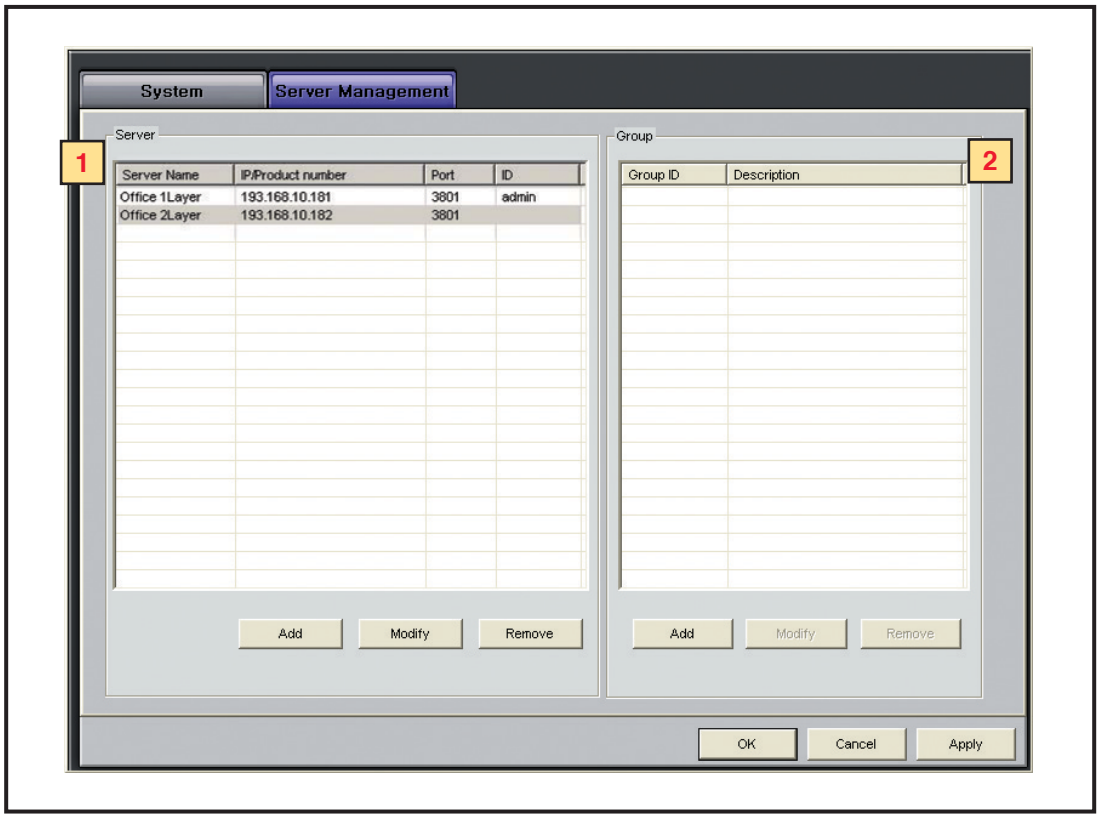
7-1. Environment Setup



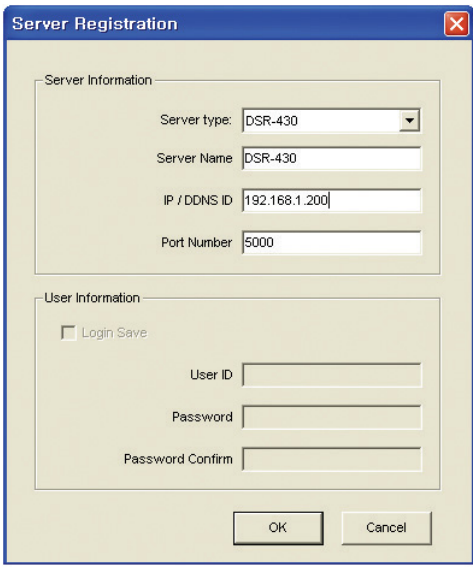
1) System
   - Automatic Screen Conversion Price (unit: second) : Sets interval of automatic screen conversion time (second).
   - Display of Character on Image: Checks whether use will be done or sets font.
   - Basic Screen Mode : Selects initial division screen
2) Dynamic IP Server : Sets dynamic IP server.
   - Type : Choose the type of DVR
   - Dynamic IP Server Address : Displays server address to support Dynamic IP. (128.134.140.160)
   - Server Response Time : Sets response time in request of Dynamic IP.
3) Recording Setup
   - Sets a drive to record data.
4) Reconnection Setup
   - Reconnect : Reconnect where connection with the server is broken due to network problems.
   - Use : Sets whether re-Connect for use will be done
   - Reconnect InTerval : Sets re-Connect trial interval.

5) Password Change
- Previous Password : Inputs the password previously used
- New Password : Inputs a new password.

7-2. Server Management



1) Server : Controls ID address for connection with server program.
[**Add**] : Registers IP address at a new remote place.
Below screen is displayed if clicking "Add" button.



- Server Type : Choose the type of DVR
- Server Name : Inputs server name.
- IP Address/ID : Inputs server IP address or MAC Address[ex: XX-XX-XX-XX-XX-XX]
- Port: Designated a port to connect to the server.[DSR-430 Default Port : 5000]
- Connect Information Saving : Saves user and password.
- User ID: Inputs user ID[DSR-430 : Not need]
- User Password: Inputs user password[DSR-430 : Not need]
- Registration is executed if clicking the "OK" button
- Registration is cancelled if clicking the "OK" button

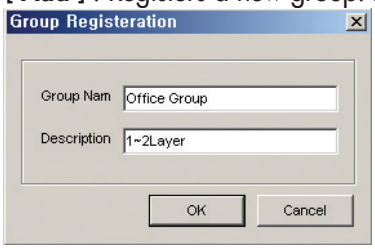
* DSR-430 is accepted to the only one user.

[**Modify**] **:** Modifies IP address of the registered remote location.
- Selects a list to modify from the server register list.
- Click "Modify" button.
- A server information window is displayed as in Add.
- Modifies the part to modify.
- Modify work is executed if clicking "OK" button.
- Modify work is cancelled if clicking "Cancel" button.

[**Remove**] **:** Deletes IP address of the already registered remote location.
- Selects a list to delete from the server register list.
- Click "Remove" button.
- Select the "OK" button from a window to check whether "Remove" will be done.

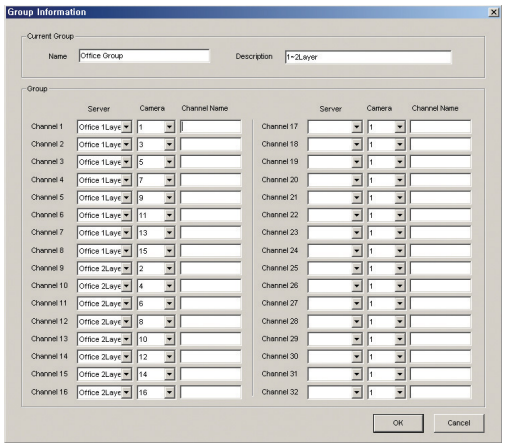
2) Group : Controls IP addresses of the remote location as group**.**

[**Add**] : Registers a new group. Below screen is displayed if clicking "Add" button.



- Group Name : Inputs a group name.
- Explanation : Inputs simple explanation for the group name.

[**Modify**] **:** Modifies the already registered group.



- Selects a list to modify from the group list.
- Click "Modify" button.
- A group information window is displayed as in the left figure.
- Select server and camera.
- Modify work is executed if clicking "OK" button.
- Modify work is cancelled if clicking "Cancel" button.

[**Remove**] **:** Delete the already registered group.
- Select a list to delete from the group register list.
- Click "Remove" button.
- Select the "OK" button from a window to check whether "Remove" will be done.

Search Function: Executes Search.

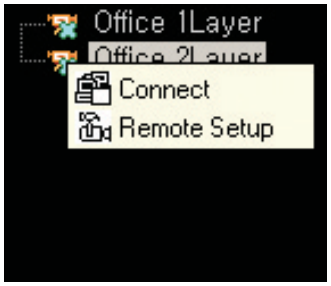
8. Function Tab Button : Functions of logo, camera status, log, pan tilt control, server control and group control. (DSR-430 is not accepted to use the network PTZ Control)

[**Camera 1 Group**] : Displays camera status from No.1 camera through No.16.

[**Camera 2 Group**] : Displays camera status from No.17 camera through No.32]

[**Server**] : Controls list of the remote location registered in server control setting.

[Remote Place Connect Sequence]



- Clicks a server name to Connect from server lists with a left mouse.
- "Connect "/ "Remote Setup" menu is displayed if clicking the right mouse button.[DSR-430: Remote Setup not support.]
- Try Connect to the server in selection of "Connect". (All cameras connected with the server are Connected.)
- If succeeding in Connect, image is displayed on the monitor screen window.
- If failing in Connect, Connect failure error message is displayed.

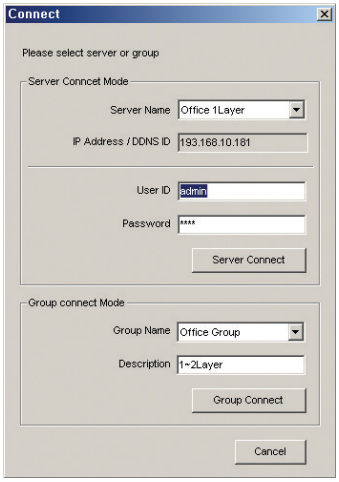
[Group] : Controls list of the group list registered in the group control setting.

[Group Connect Sequence]

- Clicks a group name to Connect from server lists with a left mouse.
- "Connect" menu is displayed if clicking the right mouse button.
- Try Connect to the servers in selection of "Connect". (Connect to all servers included in the group is tried.)
- If succeeding in Connect, image is displayed on the monitor screen window.
- If failing in Connect, Connect failure error message is displayed.

9. Connect / Disconnect: : Connect to the server or DisConnect Connect from it.

[Server Connect Sequence]



- Click the Connect icon.
- The Connect window is displayed as in the left figure.
- Server Name : Selects the server to Connect from the server list.
- User ID : Inputs user ID.
- Password : Inputs password.
- "Server Connect" : Clicks the server Connect button.
- If succeeding in Connect, image is displayed on the monitor screen window.
- If failing in Connect, Connect failure error message is displayed. [Not need to the ID/PW for DSR-430 by remote connection.]

[Group Connect Sequence]

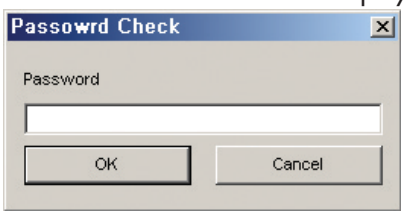
- Click the Connect icon.
- The Connect window is displayed as in the left figure.
- Group Name : Selects a group to Connect from the group list.
- "Group Connect" : Clicks the group Connect button.
- If succeeding in Connect, image is displayed on the monitor screen window.
- If failing in Connect, Connect failure error message is displayed.

[Connect / Disconnect] : In Disconnect status.

- Click the Connect icon;
- A check window is displayed asking whether Disconnect will be done.
- Click the "OK" button.

10. Quit : Quit program.

- Clicks the end icon.
- The authorization window is displayed.



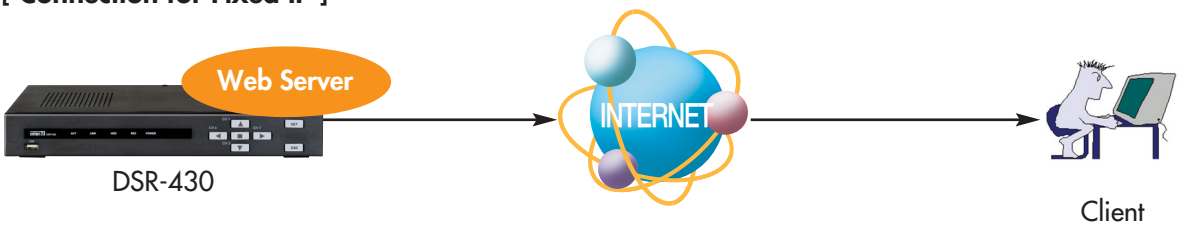
- Click "OK" button after inputting password.

Supplement

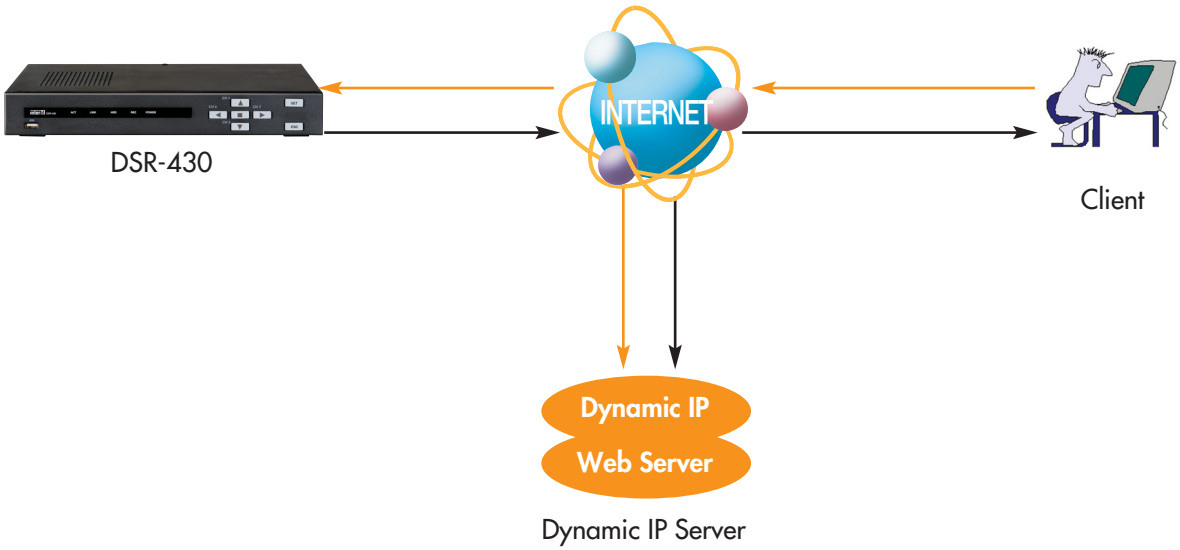
1. UNDERSTANDING OF DYNAMIC IP

This is method that new Internet IP is assigned whenever starting the system connected with DHCP (Dynamic Host Configuration Protocol) server, which is not an independent IP fixed to Internet.
To use such system as an independent server, a middle media server to relay IP changed from time to time is required, and the system that plays such a role is a DIMS(Dynamic IP Management Server) system.

[Connection for Fixed IP]



[Connection for Dynamic IP]



(To support "Dynamic IP Function", you must register the user in the "Dynamic IP Server" (http://www.inter-mdvr.co.kr))

CMS is integrated software as to a group of DVR of Inter-M and could possibly have some functions unsupplied as a integrated management system of a diversity of products.

2. RECORDING TIME TABLE

HDD:160G
Value: Days

Recording Resolution	Quality	KB/1pic	Mbuye/Hour	7.5fps REC by Channel			
			7.5fps	1ch REC	2ch REC	3ch REC	4ch REC
352 X 240	LOWEST	8	216	30.9	15.4	10.3	7.7
	LOW	9	243	27.4	13.7	9.1	6.9
	NORMAL	10	270	24.7	12.3	8.2	6.2
	HIGH	12	324	20.6	10.3	6.9	5.1
	HIGHEST	19	513	13.0	6.5	4.3	3.2
704 X 240	LOWEST	13	351	19.0	9.5	6.3	4.7
	LOW	14	378	17.6	8.8	5.9	4.4
	NORMAL	16	432	15.4	7.7	5.1	3.9
	HIGH	20	540	12.3	6.2	4.1	3.1
	HIGHEST	26	702	9.5	4.7	3.2	2.4

Recording Resolution	Quality	KB/1pic	Mbuye/Hour	15fps REC by Channel			
			15fps	1ch REC	2ch REC	3ch REC	4ch REC
352 X 240	LOWEST	8	432	15.4	7.7	5.1	3.9
	LOW	9	486	13.7	6.9	4.6	3.4
	NORMAL	10	540	12.3	6.2	4.1	3.1
	HIGH	12	648	10.3	5.1	3.4	2.6
	HIGHEST	19	1026	6.5	3.2	2.2	1.6
704 X 240	LOWEST	13	702	9.5	4.7	3.2	2.4
	LOW	14	756	8.8	4.4	2.9	2.2
	NORMAL	16	864	7.7	3.9	2.6	1.9
	HIGH	20	1080	6.2	3.1	2.1	1.5
	HIGHEST	26	1404	4.7	2.4	1.6	1.2

Recording Resolution	Quality	KB/1pic	Mbuye/Hour	30fps REC by Channel			
			30fps	1ch REC	2ch REC	3ch REC	4ch REC
352 X 240	LOWEST	8	864	7.7	3.9	2.6	1.9
	LOW	9	972	6.9	3.4	2.3	1.7
	NORMAL	10	1080	6.2	3.1	2.1	1.5
	HIGH	12	1296	5.1	2.6	1.7	1.3
	HIGHEST	19	2054	3.2	1.6	1.1	0.8

* 704 X 240 Maximum Recording Frame = 15 Frame/sec

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